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FILE 'USPAT' ENTERED AT 12:19:46 ON 12 AUG 1999

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*           U. S.   P A T E N T   T E X T   F I L E
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*   THE WEEKLY PATENT TEXT AND IMAGE DATA IS CURRENT
*   THROUGH AUGUST 10,1999
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=> s desalting(W)nucleic

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          3877 DESALTING
          23193 NUCLEIC
L1          0 DESALTING(W)NUCLEIC

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=> s concentrating(W)nucleic

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          29324 CONCENTRATING
          23193 NUCLEIC
L2          4 CONCENTRATING(W)NUCLEIC

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=> d L2 1-4

1. 5,451,500, Sep. 19, 1995, Device for processing biological specimens for analysis of nucleic acids; Marilyn J. Stapleton, 435/6; 422/947; 439/289, 290, 294 [IMAGE AVAILABLE]
2. 5,310,650, May 10, 1994, Method and device for improved reaction kinetics in nucleic acid hybridizations; Michael E. McMahon, et al., 435/6; 422/947; 435/285.1, 810; 436/501; 536/22.1, 23.1, 24.31, 24.32, 24.33 [IMAGE AVAILABLE]
3. 5,284,940, Feb. 8, 1994, Preparation for nucleic acid samples; Lily Lin, et al., 536/25.4; 435/6, 270; 536/25.41, 25.42 [IMAGE AVAILABLE]
4. 4,787,963, Nov. 29, 1988, Method and means for annealing complementary nucleic acid molecules at an accelerated rate; William P. MacConnell, 204/450, 600; 435/6, 287.2 [IMAGE AVAILABLE]

=> d L2 1-4 kwic

US PAT NO: 5,451,500 [IMAGE AVAILABLE] L2: 1 of 4

DETDESC:

DETD(81)

Data . . . are fixed by drying in the matrix. The matrix capacity to absorb solutions is reduced after its first drying, thereby **concentrating nucleic** acids in a smaller volume of matrix and requiring fewer primer or probe molecules to maintain adequate molarity. Residual enzymes. . .

US PAT NO: 5,310,650 [IMAGE AVAILABLE] L2: 2 of 4

SUMMARY:

BSUM(8)

MacConnell, U.S. Pat. No. 4,787,963 discloses a method and apparatus for improving the kinetics of heterogeneous hybridizations. By electrophoretically **concentrating nucleic** acid probes at a membrane to which the target sequences are bound, the chances of nucleation and annealing are increased.. . .

DETDESC:

DETD(2)

The . . . whole blood, it is not intended that the present invention be limited to this source alone. The present invention contemplates **concentrating nucleic** acid sequences from other biological sources as well (e.g. bone marrow, spinal fluid, urine, feces, and tissue of all types, including biopsied tissue). The present invention further contemplates **concentrating nucleic** acid sequences from blood cells found in biological sources other than whole blood (.e.g. lymphocytes in sputum, urine, etc.). The present invention further contemplates **concentrating nucleic** acid sequences from the remains or residue of biological sources (e.g. forensic and archeological specimens).

US PAT NO: 4,787,963 [IMAGE AVAILABLE]

L2: 4 of 4

SUMMARY:

BSUM(26)

The . . . accelerating the rate of hybridization of a nucleic acid probe assay of the filter-binding or sandwich filter-binding type by electrophoretically **concentrating nucleic** acid probe molecules at membrane means to which target nucleic acid sequences are bound. Such electrophoretic concentration substantially increases the. . .

=> d

L2 1 ab

US PAT NO: 5,451,500 [IMAGE AVAILABLE]

L2: 1 of 4

ABSTRACT:

A system is provided for the automated detection of target nucleic acid sequences in which multiple biological samples are individually incorporated into matrices within carriers in a two-dimensional format. The matrix carrier is an inexpensive, disposable unit that represents a closed system separating the specimens. The system integrates sample preparation within the matrix and facilitates biochemical reactions, addition of reagents and washes, removal of waste fluids, temperature control and the automated processing thereof. The carriers are processed in stepwise treatments that expose, amplify, and detect the presence or absence of specific genetic entities in each sample. The nucleic acids or other desired biological components held within the matrices are treated by one or more of the techniques such as amplification, electrophoresis, analyte-receptor binding or hybridization as selected for the desired analysis. Different types of carriers are used for different kinds of diagnostic tests or test panels. Different primer and polymerase molecules may be used to replicate the target sequences of nucleic acids in the sample. The system also includes a heating and a passive cooling system that will provide rapid thermal cycling in a two-dimensional format for denaturation and amplification protocols so requiring them, or maintain constant temperatures for isothermal amplification and hybridization protocols. The system is adaptable to a variety of non-isotopic labels. The two-dimensional format lends itself to digitizing signals in a two-dimensional array for image analysis. Microscopic interpretation is possible with or without image analysis.

=> s nucleic and hydrophobic

23193 NUCLEIC
54932 HYDROPHOBIC
L3 6660 NUCLEIC AND HYDROPHOBIC

=> s hydrophobic(W)matrix

54932 HYDROPHOBIC
164858 MATRIX
L4 247 HYDROPHOBIC(W)MATRIX

=> s L3 and L4

L5 22 L3 AND L4

=> d L5 1-22

1. 5,866,429, Feb. 2, 1999, Precision and accuracy of anion-exchange separation of **nucleic** acids; Will Bloch, 436/94; 210/656, 660; 436/161; 536/25.4 [IMAGE AVAILABLE]
2. 5,856,192, Jan. 5, 1999, Precision and accuracy of anion-exchange separation of **nucleic** acids; Will Bloch, 436/18; 435/6; 436/161; 536/25.4, 26.43; 564/281 [IMAGE AVAILABLE]
3. 5,811,538, Sep. 22, 1998, Process for the purification of oligomers; Timothy Andrew Riley, et al., 536/25.4; 424/486; 528/332 [IMAGE AVAILABLE]
4. 5,807,675, Sep. 15, 1998, Fluorescent oxygen channeling immunoassays; Dariush Davalian, et al., 435/6, 7.1, 7.5, 7.8, 7.91, 7.92; 436/501, 523, 525, 533, 534, 536 [IMAGE AVAILABLE]
5. 5,801,237, Sep. 1, 1998, Method for the purification of short **nucleic** acids; Hans Johansson, 536/25.4; 435/6; 536/25.3, 25.41, 27.1, 27.11, 27.12 [IMAGE AVAILABLE]
6. 5,750,374, May 12, 1998, Process for producing **hydrophobic** polypeptides and proteins, and fusion proteins for use in producing same; Heinz Dobeli, et al., 435/69.7; 530/407, 412, 415 [IMAGE AVAILABLE]
7. 5,736,340, Apr. 7, 1998, Secreted Mac-2-binding glycoprotein; Kirston E. Koths, et al., 435/7.1, 7.2, 7.23; 436/63, 64, 813 [IMAGE AVAILABLE]
8. 5,644,035, Jul. 1, 1997, Method for purifying secreted Mac-2-binding glycoprotein; Kirston E. Koths, et al., 530/395; 210/635, 656, 660; 530/396, 412, 416, 417 [IMAGE AVAILABLE]
9. 5,626,863, May 6, 1997, Photopolymerizable biodegradable hydrogels as tissue contacting materials and controlled-release carriers; Jeffrey A. Hubbell, et al., 424/426; 128/898; 424/489; 514/772.1, 772.3, 773, 777; 522/2, 26, 33, 44, 48, 84, 97; 525/54.1, 54.2, 408, 413, 415; 528/354, 361 [IMAGE AVAILABLE]
10. 5,616,719, Apr. 1, 1997, Photoactive indicator compounds; Dariush Davalian, et al., 546/334; 548/228; 549/285, 286, 400, 466, 479; 558/409 [IMAGE AVAILABLE]
11. 5,599,792, Feb. 4, 1997, Bone-stimulating, non-vasoactive parathyroid hormone variants; K. Anne Kronis, et al., 514/12; 530/324 [IMAGE AVAILABLE]
12. 5,593,842, Jan. 14, 1997, Method of measuring thymopoietin proteins in plasma and serum including acidification of the plasma and serum; Gideon Goldstein, et al., 435/7.1, 7.92, 962, 967, 975; 436/174, 175, 177, 178 [IMAGE AVAILABLE]

13. 5,571,686, Nov. 5, 1996, Method of using megapoietin for prolonging the survival & viability of platlets; Robert D. Rosenberg, et al., 435/29; 424/85.1; 514/2, 8, 12, 885 [IMAGE AVAILABLE]
14. 5,567,435, Oct. 22, 1996, Photopolymerizable biodegradable hydrogels as tissue contacting materials and controlled-release carriers; Jeffrey A. Hubbell, et al., 424/426; 128/898; 424/489, 490; 514/772.1, 772.3, 773, 777; 525/54.1, 54.2, 408, 413, 415; 528/354, 361 [IMAGE AVAILABLE]
15. 5,474,796, Dec. 12, 1995, Method and apparatus for conducting an array of chemical reactions on a support surface; Thomas M. Brennan, 427/2.13; 422/57, 58, 99, 104; 427/2.11, 264, 266, 271, 282, 336, 338, 407.2; 435/283.1, 285.1, 317.1 [IMAGE AVAILABLE]
16. 5,410,016, Apr. 25, 1995, Photopolymerizable biodegradable hydrogels as tissue contacting materials and controlled-release carriers; Jeffrey A. Hubbell, et al., 528/354; 128/898; 424/426, 489; 514/772.1, 772.3, 773, 777; 522/14, 26, 44, 48, 88, 181; 525/54.1, 54.2, 408, 413, 415; 528/361 [IMAGE AVAILABLE]
17. 5,382,658, Jan. 17, 1995, Stability-enhanced variants of parathyroid hormone; K. Anne Kronis, et al., 530/397, 324 [IMAGE AVAILABLE]
18. 5,378,232, Jan. 3, 1995, Injection/activation apparatus; Thomas G. Easton, et al., 604/82, 85 [IMAGE AVAILABLE]
19. 4,948,729, Aug. 14, 1990, Production of soluble recombinant proteins; Michael Piatak, Jr., et al., 435/69.1, 69.7, 69.8, 183, 252.3, 320.1 [IMAGE AVAILABLE]
20. 4,894,439, Jan. 16, 1990, N-terminal derivatives of tumor necrosis factor purified by microporous PTFE membranes; Glenn Dorin, et al., 530/351; 435/69.5; 530/412, 416, 417, 820, 825 [IMAGE AVAILABLE]
21. 4,786,501, Nov. 22, 1988, Cylindrical implants for the controlled release of growth hormones; Alvin M. Janski, et al., 424/422, 423, 424, 425, 426; 514/964; 530/399, 412, 417 [IMAGE AVAILABLE]
22. 4,522,724, Jun. 11, 1985, Diazonium affinity matrixes; Hugh E. Ramsden, 210/635, 502.1, 656; 502/157, 402 [IMAGE AVAILABLE]

=> d his

(FILE 'USPAT' ENTERED AT 12:19:46 ON 12 AUG 1999)

L1 0 S DESALTING(W)NUCLEIC
L2 4 S CONCENTRATING(W)NUCLEIC
L3 6660 S NUCLEIC AND HYDROPHOBIC
L4 247 S HYDROPHOBIC(W)MATRIX
L5 22 S L3 AND L4

=> d L5 1,2,5 ab

US PAT NO: 5,866,429 [IMAGE AVAILABLE]

L5: 1 of 22

ABSTRACT:

Solvents for salt-gradient anion-exchange separation of **nucleic** acids, especially double-stranded DNA and especially by liquid chromatography, are improved by replacing NaCl as the eluting salt with any of a wide range of alkyl ammonium salts and can be used to elute **nucleic** acids in strict order of increasing length, with reduced sensitivity to elution temperature and salt concentration. Anion-exchange chromatography with these solvents is well suited for identification of DNA fragments on the basis of size, with greater accuracy, precision, and

resolvable size range than often is possible with gel electrophoresis.

US PAT NO: 5,856,192 [IMAGE AVAILABLE]

L5: 2 of 22

ABSTRACT:

Solvents for salt-gradient anion-exchange separation of **nucleic** acids, especially double-stranded DNA and especially by liquid chromatography, are improved by replacing NaCl as the eluting salt with any of a wide range of alkyl ammonium salts and can be used to elute **nucleic** acids in strict order of increasing length, with reduced sensitivity to elution temperature and salt concentration. Anion-exchange chromatography with these solvents is well suited for identification of DNA fragments on the basis of size, with greater accuracy, precision, and resolvable size range than often is possible with gel electrophoresis.

US PAT NO: 5,801,237 [IMAGE AVAILABLE]

L5: 5 of 22

ABSTRACT:

Method for the purification of a synthetic oligonucleotide from failure sequences comprising contacting a sample containing the desired oligonucleotide in protected water-soluble form with a hydrophilic adsorbent exhibiting anion exchange groups under conditions permitting binding of said oligonucleotide to said adsorbent, whereafter the adsorbed oligonucleotide is deprotected and separated from failure sequences. The characteristic feature of the method is to use an anion exchange adsorbent that binds the protected oligonucleotide under conditions of high as well as low ionic strength.

=> s hydrophobic(W) chromatography

54932 HYDROPHOBIC
127199 CHROMATOGRAPHY
L6 494 HYDROPHOBIC(W) CHROMATOGRAPHY

=> s nucleic and L6

23193 NUCLEIC
L7 228 NUCLEIC AND L6

=> s oligonucleotide#

L8 14730 OLIGONUCLEOTIDE#

=> s L6 and L8

L9 170 L6 AND L8

=> d L9 1-170

1. 5,935,832, Aug. 10, 1999, Farnesyl diphosphate synthase; Hiroyuki Nakane, et al., 435/193, 252.3, 254.11, 320.1, 325, 410; 536/23.2 [IMAGE AVAILABLE]

2. 5,922,578, Jul. 13, 1999, Recombinant thermostable enzyme which forms non-reducing saccharide from reducing amylaceous saccharide; Kazuhiko Maruta, et al., 435/97, 96, 99, 101, 200, 201, 202, 205 [IMAGE AVAILABLE]

3. 5,916,558, Jun. 29, 1999, Recombinant polypeptides and peptides, nucleic acids coding for the same and use of these polypeptides and peptides in the diagnostic of tuberculosis; Jean Content, et al., 424/130.1, 187.1; 435/6, 7.1, 69.1, 70.1, 71.1, 243, 320.1, 325; 530/300, 350; 536/23.1, 24.1, 24.3, 24.31, 24.32, 24.33 [IMAGE AVAILABLE]

4. 5,914,261, Jun. 22, 1999, Family of MAP2 protein kinases; Teri G.

Boulton, et al., 435/243, 91.1, 252.8, 254.2, 320.1, 325, 348; 536/23.2, 23.5 [IMAGE AVAILABLE]

5. 5,914,253, Jun. 22, 1999, Recombinant production of murine interferon--gamma. (IFN-.gamma.) inducing factor (IGIF, IL-18); Haruki Okamura, et al., 435/69.52, 69.5, 252.3, 252.33, 320.1, 325; 536/23.5 [IMAGE AVAILABLE]

6. 5,914,126, Jun. 22, 1999, Methods to deliver macromolecules to hair follicles; Lingna Li, et al., 424/450, 70.1; 514/2, 44 [IMAGE AVAILABLE]

7. 5,912,324, Jun. 15, 1999, Interferon-gamma (IFN-.gamma.) inducing factor (IGIF, IL-18) purified from murine liver; Haruki Okamura, et al., 530/351; 424/85.1, 85.2; 435/69.52; 530/413 [IMAGE AVAILABLE]

8. 5,910,432, Jun. 8, 1999, Nitrile hydratase; Kiyoshi Ito, et al., 435/129, 69.1, 232, 252.3, 254.11, 320.1, 325, 410; 536/23.2 [IMAGE AVAILABLE]

9. 5,906,747, May 25, 1999, Separation of molecules from dilute solutions using composite chromatography media having high dynamic sorptive capacity at high flow rates; Jonathan L. Coffman, et al., 210/635, 198.2, 656; 530/413, 417 [IMAGE AVAILABLE]

10. 5,906,734, May 25, 1999, Passivated porous polymer supports and methods for the preparation and use of same; Pierre Girod, et al., 210/198.2, 502.1, 635, 656; 502/402 [IMAGE AVAILABLE]

11. 5,892,013, Apr. 6, 1999, Lipase variants; Allan Svendsen, et al., 536/23.2; 435/69.1, 198, 252.3, 320.1; 536/23.7 [IMAGE AVAILABLE]

12. 5,892,001, Apr. 6, 1999, Epithelium-derived T-cell factor antibodies; Kenneth H. Grabstein, et al., 530/387.9; 435/326, 331, 335; 530/388.1 [IMAGE AVAILABLE]

13. 5,891,663, Apr. 6, 1999, Process for preparing polypeptide; Tadao Tanimoto, et al., 435/68.1; 530/350, 351, 412 [IMAGE AVAILABLE]

14. 5,885,821, Mar. 23, 1999, Process for production of secretory Kex2 derivatives; Koji Magota, et al., 435/224, 254.2; 536/23.2 [IMAGE AVAILABLE]

15. 5,880,272, Mar. 9, 1999, Oxidized phospholipid degrading enzyme and gene thereof; Hideki Adachi, et al., 536/23.2; 435/195, 198 [IMAGE AVAILABLE]

16. 5,879,942, Mar. 9, 1999, Processing enzyme for polypeptide; Tadao Tanimoto, et al., 435/226, 219 [IMAGE AVAILABLE]

17. 5,877,280, Mar. 2, 1999, Thermostable muts proteins; James G. Wetmur, 530/350; 435/6, 91.1; 436/94, 501 [IMAGE AVAILABLE]

18. 5,877,003, Mar. 2, 1999, Thermostable Mutants of D-N-.alpha.-carbamoylase; Renata Grifantini, et al., 435/228, 106, 252.31, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]

19. 5,877,002, Mar. 2, 1999, Thermostable mutants of D-N-.alpha.-carbamoylase; Renata Grifantini, et al., 435/228, 227 [IMAGE AVAILABLE]

20. 5,876,995, Mar. 2, 1999, Bioluminescent novelty items; Bruce Bryan, 435/189; 426/66, 104, 250, 262, 268, 383, 422, 540, 590, 592, 656; 530/350 [IMAGE AVAILABLE]

21. 5,874,561, Feb. 23, 1999, DNA, host cell and vector encoding a protein with cytokine inhibitory activity; John Stephen Haskill, et al.,

536/23.5; 435/69.1, 69.5, 69.52, 252.3, 320.1, 325, 335 [IMAGE AVAILABLE]

22. 5,872,006, Feb. 16, 1999, Family of MAP2 protein kinases; Teri G. Boulton, et al., 435/320.1, 69.1, 91.1, 194, 252.3, 254.2, 325, 375, 377; 536/23.2, 23.5 [IMAGE AVAILABLE]

23. 5,871,994, Feb. 16, 1999, DNA encoding enzyme, recombinant DNA and enzyme, transformant, and their preparation and uses; Michio Kubota, et al., 435/200, 201 [IMAGE AVAILABLE]

24. 5,871,993, Feb. 16, 1999, DNA encoding enzyme, recombinant DNA and enzyme, transformant, and their preparations and uses; Michio Kubota, et al., 435/200, 252.3, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]

25. 5,871,977, Feb. 16, 1999, DNA encoding enzyme recombinant DNA and enzyme transformant, and their preparation and uses; Michio Kubota, et al., 435/100, 101, 200, 252.3, 320.1; 536/23.2 [IMAGE AVAILABLE]

26. 5,869,438, Feb. 9, 1999, Lipase variants; Allan Svendsen, et al., 510/226; 435/69.1, 196, 198, 252.3, 320.1; 510/305, 392; 530/350; 536/23.2, 23.7 [IMAGE AVAILABLE]

27. 5,866,775, Feb. 2, 1999, Glyphosate-tolerant 5-enolpyruvyl-3-phosphoshikimate synthases; David Alan Eichholtz, et al., 800/260; 47/58.1, DIG.1; 435/91.5, 320.1, 418, 419; 536/23.2, 23.6, 23.7; 800/275, 278, 300, 300.1 [IMAGE AVAILABLE]

28. 5,861,284, Jan. 19, 1999, Method for producing a biologically active recombinant cysteine-free parathyroid hormone (1-34); Osamu Nishimura, et al., 435/69.4, 69.7 [IMAGE AVAILABLE]

29. 5,858,688, Jan. 12, 1999, Gro genes, proteins, and uses thereof; John Stephen Haskill, et al., 435/7.21, 7.24, 29; 436/63, 501 [IMAGE AVAILABLE]

30. 5,858,347, Jan. 12, 1999, Therapeutic methods using fusion proteins between interleukin-3 (IL-3) variants and other hematopoietic factors; S. Christopher Bauer, et al., 424/85.2, 192.1; 530/351; 930/141 [IMAGE AVAILABLE]

31. 5,856,146, Jan. 5, 1999, Recombinant thermostable enzyme which releases trehalose from non-reducing saccharide; Hitoshi Mitsuzumi, et al., 435/97, 100, 195, 200, 201, 253.3, 822; 530/350, 825 [IMAGE AVAILABLE]

32. 5,856,138, Jan. 5, 1999, Human parathyroid hormone muteins and production thereof; Tsunehiko Fukuda, 435/69.4, 252.3, 320.1, 325; 530/324; 536/23.51, 24.1 [IMAGE AVAILABLE]

33. 5,854,396, Dec. 29, 1998, Protein, DNA coding for same and method of producing the protein; Takeshi Shimomura, et al., 530/350; 435/69.1, 255.3, 320.1; 536/23.7 [IMAGE AVAILABLE]

34. 5,854,040, Dec. 29, 1998, Process for producing trans-4-hydroxy-L-proline; Akio Ozaki, et al., 435/189, 107, 252.3, 252.33, 320.1; 536/23.1, 23.2 [IMAGE AVAILABLE]

35. 5,853,974, Dec. 29, 1998, Enhancement of alkaline phosphatase with SDS in chemiluminescent substrates; Patrick J. Sheridan, 435/4; 252/700; 435/5, 6, 21, 183 [IMAGE AVAILABLE]

36. 5,849,557, Dec. 15, 1998, Oxidized phospholipid degrading enzyme and gene thereof; Hideki Adachi, et al., 435/198, 197 [IMAGE AVAILABLE]

37. 5,846,810, Dec. 8, 1998, Human 26S proteasome subunit components; Keiichi Yano, et al., 435/252.3, 69.1, 252.33, 320.1, 325; 536/23.1,

23.2, 23.5 [IMAGE AVAILABLE]

38. 5,846,763, Dec. 8, 1998, DNA encoding tumor necrosis factor stimulated gene 6 (TSG-6); Tae Ho Lee, et al., 435/69.1, 252.3, 320.1; 536/23.1, 23.5 [IMAGE AVAILABLE]

39. 5,843,750, Dec. 1, 1998, Sorbitol kinase, process for producing the same, and substantially pure microorganism; Shinji Koga, et al., 435/194, 252.1 [IMAGE AVAILABLE]

40. 5,843,748, Dec. 1, 1998, Trehalose phosphorylase its preparation and uses; Tetsuya Nakada, et al., 435/193, 69.1, 252.3, 320.1; 530/300, 350; 536/23.2 [IMAGE AVAILABLE]

41. 5,843,746, Dec. 1, 1998, Biotinated firefly luciferase, a gene for biotinated firefly luciferase, a recombinant DNA, a process for producing biotinated luciferase and a bioluminescent analysis method; Hiroki Tatsumi, et al., 435/189, 69.7, 71.2, 252.3, 252.33, 320.1; 536/23.2, 23.4 [IMAGE AVAILABLE]

42. 5,840,518, Nov. 24, 1998, DNA fragment, vector containing the DNA fragment, transformant transformed with the vector and process for producing protein using the vector; Hideaki Morishita, et al., 435/69.1, 252.3, 252.31, 252.33, 254.2, 320.1; 536/23.4 [IMAGE AVAILABLE]

43. 5,834,287, Nov. 10, 1998, DNA encoding enzyme, recombinant DNA and enzyme, transformant, and their preparation and uses; Michio Kubota, et al., 435/201, 100, 200, 274 [IMAGE AVAILABLE]

44. 5,834,286, Nov. 10, 1998, Recombinant cells that express phytate degrading enzymes in desired ratios; Helena K. M. Nevalainen, et al., 435/196; 426/635; 435/252.3, 252.31, 252.33, 254.11, 254.3, 254.5, 254.6, 254.9, 325 [IMAGE AVAILABLE]

45. 5,834,284, Nov. 10, 1998, N-acetylglucosaminyl transferase gene coding therefor and process for production thereof; Naoyuki Taniguchi, et al., 435/193, 252.3, 320.1; 536/23.2 [IMAGE AVAILABLE]

46. 5,830,715, Nov. 3, 1998, DNA encoding enzyme, recombinant DNA and enzyme, transformant, and their preparations and uses; Michio Kubota, et al., 435/96, 200, 201, 276 [IMAGE AVAILABLE]

47. 5,830,684, Nov. 3, 1998, Native type II GAP, methods for purifying various GAPs and uses of GAPs to diagnose cancer; Robert Halenbeck, et al., 435/69.1, 69.2; 530/350 [IMAGE AVAILABLE]

48. 5,827,552, Oct. 27, 1998, Production of fermented food products; Stanley E. Mainzer, et al., 426/7, 34, 42, 43, 61; 435/99, 170, 207, 252.3, 252.4, 252.9 [IMAGE AVAILABLE]

49. 5,824,534, Oct. 20, 1998, Aminopeptidase GX, and a method of hydrolyzing a protein with the same; Minao Asano, et al., 435/212, 68.1, 106, 109, 110 [IMAGE AVAILABLE]

50. 5,814,465, Sep. 29, 1998, Biotinated firefly luciferase, a gene for biotinated firefly luciferase, a recombinant DNA, a process for producing biotinated luciferase and a bioluminescent analysis method; Hiroki Tatsumi, et al., 435/7.5, 7.6, 8, 188, 189 [IMAGE AVAILABLE]

51. 5,807,730, Sep. 15, 1998, Nitrile hydratase; Kiyoshi Ito, et al., 435/232, 822 [IMAGE AVAILABLE]

52. 5,804,410, Sep. 8, 1998, Nucleic acid sequence encoding trypsin-like enzyme and process for producing the enzyme; Kazuyoshi Yamaoka, et al., 435/69.1, 183, 213, 252.3, 320.1, 325; 536/23.2 [IMAGE AVAILABLE]

53. 5,801,031, Sep. 1, 1998, Human and rat gamma glutamyl hydrolase genes; John Henry Galivan, et al., 435/6, 69.1, 195, 320.1, 325, 353, 366, 372; 536/23.1, 23.2, 23.5, 24.31 [IMAGE AVAILABLE]
54. 5,795,966, Aug. 18, 1998, Antagonists of interleukin-15; Kenneth H. Grabstein, et al., 530/388.23; 424/158.1; 435/326, 328, 335, 346, 352 [IMAGE AVAILABLE]
55. 5,792,629, Aug. 11, 1998, Isolated DNA encoding novel protease inhibitory polypeptide; Hideaki Morishita, et al., 435/69.2, 252.3, 252.33, 254.11, 320.1, 358, 365, 367; 536/23.5 [IMAGE AVAILABLE]
56. 5,789,216, Aug. 4, 1998, Cloning and expression of human GMP synthetase, its use in screening for inhibitors of human GMP synthetase and inhibitors of human GMP synthetase; Lillian Lien-Li Lou, et al., 435/183, 69.1, 252.3, 320.1; 536/23.2, 24.31 [IMAGE AVAILABLE]
57. 5,789,203, Aug. 4, 1998, Protein complexes having factor VIII:C activity and production thereof; Barbara Chapman, et al., 435/69.6, 320.1; 530/383; 536/23.5; 930/100 [IMAGE AVAILABLE]
58. 5,780,227, Jul. 14, 1998, **Oligonucleotide** probe conjugated to a purified hydrophilic alkaline phosphatase and uses thereof; Patrick J. Sheridan, et al., 435/6; 536/23.1, 24.3 [IMAGE AVAILABLE]
59. 5,776,751, Jul. 7, 1998, Family of MAP2 protein kinases; Teri G. Boulton, et al., 435/194, 320.1; 536/23.2 [IMAGE AVAILABLE]
60. 5,776,446, Jul. 7, 1998, Human lymphotoxin; Toshiaki Osawa, et al., 424/85.1; 435/69.5, 71.2, 252.3, 320.1; 514/2, 12; 530/351 [IMAGE AVAILABLE]
61. 5,773,282, Jun. 30, 1998, Recombinant thermostable enzyme for converting maltose into trehalose from *Thermus aquaticus*; Keiji Tsusaki, et al., 435/252.3, 100, 200, 252.33, 325, 419; 536/23.2 [IMAGE AVAILABLE]
62. 5,773,272, Jun. 30, 1998, D-amino acid oxidase of *F. solani* and methods for its recombinant production; Takao Isogai, et al., 435/189, 47, 69.1, 252.3, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]
63. 5,766,918, Jun. 16, 1998, Enantioselective amidases and uses thereof; Dominique Petre, et al., 435/228, 69.1, 136, 141, 252, 252.32, 280, 320.1; 536/23.2 [IMAGE AVAILABLE]
64. 5,766,911, Jun. 16, 1998, Mutated farnesyl diphosphate synthase capable of synthesizing geranylgeranyl diphosphate and gene coding therefor; Ayumi Koike, et al., 435/6, 69.1, 75, 193, 252.3, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]
65. 5,763,573, Jun. 9, 1998, GTPase activating protein fragments; Francis P. McCormick, et al., 530/326, 350 [IMAGE AVAILABLE]
66. 5,763,236, Jun. 9, 1998, Method for producing ketone or aldehyde using an alcohol dehydrogenase of *Candida Parapsilosis*; Tomoko Kojima, et al., 435/148, 147, 155, 157, 160, 174, 189, 190, 252.3, 254.11, 254.22; 536/23.2 [IMAGE AVAILABLE]
67. 5,763,228, Jun. 9, 1998, Recombinant enzyme for converting maltose into trehalose from *pimelobacter* sp.; Michio Kubota, et al., 435/100, 200, 252.31, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]
68. 5,760,203, Jun. 2, 1998, Gap gene sequences; Gail L. Wong, et al., 536/23.1; 435/6, 69.1, 252.33, 348; 536/24.1, 24.3, 24.31, 24.32, 24.33 [IMAGE AVAILABLE]
69. 5,756,686, May 26, 1998, Peptides derived from endothelial cell

growth factor; Carl-Henrik Heldin, et al., 530/399; 435/69.1, 252.33; 530/350 [IMAGE AVAILABLE]

70. 5,753,263, May 19, 1998, Method to deliver compositions conferring resistance to alopecia to hair follicles; Valeryi Lishko, et al., 424/450, 70.1; 514/2, 44 [IMAGE AVAILABLE]

71. 5,750,377, May 12, 1998, Process for preparing mammalian T cell growth factor P40; Jacques Van Snick, et al., 435/70.3; 530/351, 412, 416, 417 [IMAGE AVAILABLE]

72. 5,741,642, Apr. 21, 1998, Assay for detecting the expression of a gene encoding human keratinocyte growth factor (KGF); Jeffrey S. Rubin, et al., 435/6, 91.2; 536/23.1, 24.3, 24.33 [IMAGE AVAILABLE]

73. 5,738,849, Apr. 14, 1998, Interleukin-3 (IL-3) variant fusion proteins, their recombinant production, and therapeutic compositions comprising them; S. Christopher Bauer, et al., 424/192.1, 85.1, 85.2, 195.11; 435/69.5, 69.52, 69.7; 530/351; 536/23.4, 23.5, 23.52 [IMAGE AVAILABLE]

74. 5,736,340, Apr. 7, 1998, Secreted Mac-2-binding glycoprotein; Kirston E. Koths, et al., 435/7.1, 7.2, 7.23; 436/63, 64, 813 [IMAGE AVAILABLE]

75. 5,731,412, Mar. 24, 1998, Protein, DNA coding for same and method of producing the protein; Takeshi Shimomura, et al., 530/350; 435/69.2, 252.3, 320.1, 325, 354, 356, 358, 365; 530/395; 536/23.5 [IMAGE AVAILABLE]

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77. 5,726,147, Mar. 10, 1998, Human mutant tissue factor compositions useful as tissue factor antagonists; Wolfram Ruf, et al., 514/2; 435/7.1, 69.1; 514/12, 13, 14, 15, 16, 17, 18, 19; 530/350, 381, 399 [IMAGE AVAILABLE]

78. 5,723,318, Mar. 3, 1998, DNA coding for megakaryocyte potentiator; Nozomi Yamaguchi, et al., 435/69.5, 71.1, 252.3, 320.1, 325; 530/351, 399; 536/23.1, 23.5, 24.3 [IMAGE AVAILABLE]

79. 5,716,813, Feb. 10, 1998, DNA encoding enzyme, recombinant DNA and enzyme, transformant, and their preparations and uses; Michio Kubota, et al., 435/96, 200, 201, 276 [IMAGE AVAILABLE]

80. 5,707,846, Jan. 13, 1998, N-acetylglucosaminyl transferase gene coding therefor and process for production thereof; Naoyuki Taniguchi, et al., 435/193 [IMAGE AVAILABLE]

81. 5,707,806, Jan. 13, 1998, Direct sequence identification of mutations by cleavage- and ligation-associated mutation-specific sequencing; Anthony P. Shuber, 435/6, 5, 91.2, 174; 530/300, 350; 536/24.3, 24.32, 24.33 [IMAGE AVAILABLE]

82. 5,707,805, Jan. 13, 1998, Assay for detecting keratinocyte growth factor (KGF) and its activity; Jeffrey S. Rubin, et al., 435/6, 7.1, 7.21 [IMAGE AVAILABLE]

83. 5,707,616, Jan. 13, 1998, Method for treating or preventing gastrointestinal disease with epithelium-derived T-cell factor; Kenneth H. Grabstein, et al., 424/85.2; 435/69.52, 252.3, 320.1, 325; 514/2, 8, 12, 885; 530/351 [IMAGE AVAILABLE]

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specifically with a *Campylobacter jejuni* genomic nucleic sequence;
Jean-luc Guesdon, et al., 435/6; 536/23.1, 24.3 [IMAGE AVAILABLE]

85. 5,679,770, Oct. 21, 1997, Polypeptide, DNA fragment encoding the same, drug composition containing the same and process for producing the same; Hideaki Morishita, et al., 530/324; 435/69.2, 212, 213, 218; 530/300 [IMAGE AVAILABLE]

86. 5,677,164, Oct. 14, 1997, Hepatocyte growth factor activating protease and gene encoding the protease; Takeshi Shimomura, et al., 435/226, 212, 219 [IMAGE AVAILABLE]

87. 5,672,276, Sep. 30, 1997, Passivated porous polymer supports and methods for the preparation and use of same; Pierre Girot, et al., 210/635, 198.2, 502.1, 656; 502/402 [IMAGE AVAILABLE]

88. 5,665,870, Sep. 9, 1997, Method of purifying keratinocyte growth factor (KGF); Jeffrey S. Rubin, et al., 530/412, 399, 417; 930/10 [IMAGE AVAILABLE]

89. 5,654,405, Aug. 5, 1997, Antibodies to human keratinocyte growth factor (KGF) and related pharmaceuticals; Jeffrey S. Rubin, et al., 530/387.9; 424/139.1, 141.1, 145.1; 435/336; 530/388.24, 389.2 [IMAGE AVAILABLE]

90. 5,650,154, Jul. 22, 1997, Protective antigens against disease pathogens; Elza Nicole Theresia Meeusen, et al., 424/265.1, 245.1, 266.1; 530/350, 412 [IMAGE AVAILABLE]

91. 5,644,035, Jul. 1, 1997, Method for purifying secreted Mac-2-binding glycoprotein; Kirston E. Koths, et al., 530/395; 210/635, 656, 660; 530/396, 412, 416, 417 [IMAGE AVAILABLE]

92. 5,641,508, Jun. 24, 1997, Method for delivering melanin to hair follicles; Lingna Li, et al., 424/450, 70.1, 70.2, 70.6; 514/2 [IMAGE AVAILABLE]

93. 5,639,728, Jun. 17, 1997, Antineoplastic peptide; Akira Kaji, 514/12; 530/351 [IMAGE AVAILABLE]

94. 5,639,648, Jun. 17, 1997, Production of fermented food; Stanley E. Mainzer, et al., 435/207, 69.1, 252.3, 320.1; 536/23.2 [IMAGE AVAILABLE]

95. 5,637,490, Jun. 10, 1997, .alpha.-1,3/4-fucosidase gene; Mutsumi Sano, et al., 435/201, 252.3, 320.1; 536/23.7 [IMAGE AVAILABLE]

96. 5,635,378, Jun. 3, 1997, Variant-type carbohydrate hydrolase, variant gene of the enzyme and method for producing oligosaccharide using the enzyme; Ikuo Matsui, et al., 435/97, 193, 252.5, 832 [IMAGE AVAILABLE]

97. 5,631,149, May 20, 1997, Variant-type carbohydrate hydrolase, variant gene of the enzyme and method for producing oligosaccharide using the enzyme; Ikuo Matsui, et al., 435/101, 193, 203 [IMAGE AVAILABLE]

98. 5,624,811, Apr. 29, 1997, Bilirubin oxidase from alfalfa and use of the enzyme; Gunter Lang, et al., 435/25, 4, 189; 436/63, 97, 811; 530/412, 413, 417, 418, 427 [IMAGE AVAILABLE]

99. 5,622,928, Apr. 22, 1997, Glia activation factor and its production; Ken-ichi Naruo, et al., 514/2; 424/185.1; 435/69.1, 71.1, 252.3, 254.11; 530/350 [IMAGE AVAILABLE]

100. 5,602,016, Feb. 11, 1997, D-amino acid oxidase from *F. solani* and DNA therefor; Takao Isogai, et al., 435/189, 191, 252.3, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]

101. 5,599,453, Feb. 4, 1997, Passivated porous supports and methods for the preparation and use of same; Pierre Girot, et al., 210/635, 198.2, 656 [IMAGE AVAILABLE]
102. 5,595,904, Jan. 21, 1997, Family of map2 protein kinases; Teri G. Boulton, et al., 435/325, 243, 252.8, 254.2, 320.1, 348, 353; 536/23.5 [IMAGE AVAILABLE]
103. 5,595,886, Jan. 21, 1997, Protein complexes having Factor VIII:C activity and production thereof; Barbara Chapman, et al., 435/69.6, 320.1; 530/383; 536/23.5, 24.2 [IMAGE AVAILABLE]
104. 5,594,115, Jan. 14, 1997, Process of purifying recombinant proteins and compounds useful in such process; Satish K. Sharma, 530/413; 435/69.7; 436/525; 530/350; 536/23.1, 23.4, 23.5 [IMAGE AVAILABLE]
105. 5,593,576, Jan. 14, 1997, Passivated porous polymer supports and methods for the preparation and use of same; Pierre Girot, et al., 210/198.2, 502.1, 635, 656; 502/402 [IMAGE AVAILABLE]
106. 5,589,360, Dec. 31, 1996, Polypeptide, DNA fragment encoding the same, drug composition containing the same and process for producing the same; Hideaki Morishita, et al., 435/69.1, 69.2, 212, 213, 218, 252.3, 252.31, 252.33, 320.1, 358, 365, 367; 530/300, 324; 536/22.1, 23.1, 23.5 [IMAGE AVAILABLE]
107. 5,587,311, Dec. 24, 1996, DNA encoding a cell membrane glycoprotein of a tick gut; Gary S. Cobon, et al., 435/325, 252.3, 252.33, 254.11, 254.2, 320.1, 348; 536/23.5 [IMAGE AVAILABLE]
108. 5,587,297, Dec. 24, 1996, Method for identification of disease-specific surface components of vascular endothelial cells; Bruce S. Jacobson, et al., 435/29, 4, 34; 436/63, 64, 161, 173, 174, 177, 178, 813; 530/350, 395, 416, 418 [IMAGE AVAILABLE]
109. 5,580,757, Dec. 3, 1996, Cloning and expression of biologically active .alpha.-galactosidase A as a fusion protein; Robert J. Desnick, et al., 435/69.7, 208, 320.1 [IMAGE AVAILABLE]
110. 5,574,138, Nov. 12, 1996, Epithelium-derived T-cell factor; Kenneth H. Grabstein, et al., 530/351; 424/85.2; 435/69.52 [IMAGE AVAILABLE]
111. 5,571,676, Nov. 5, 1996, Method for mismatch-directed in vitro DNA sequencing; Anthony P. Shuber, 435/6, 5, 91.2; 536/24.3, 24.31, 24.33 [IMAGE AVAILABLE]
112. 5,556,781, Sep. 17, 1996, DNA encoding enzyme, recombinant DNA and enzyme, transformant, and their preparations and uses; Michio Kubota, et al., 435/200, 252.3, 320.1; 536/23.2 [IMAGE AVAILABLE]
113. 5,552,303, Sep. 3, 1996, DNA encoding epithelium-derived T-cell factor; Kenneth Grabstein, et al., 435/69.51, 320.1, 348, 360; 530/351; 536/23.52 [IMAGE AVAILABLE]
114. 5,545,548, Aug. 13, 1996, Thermally stable cytosine deaminase from saccharomyces; Peter D. Senter, et al., 435/227 [IMAGE AVAILABLE]
115. 5,545,530, Aug. 13, 1996, Process for measuring analyte in sample; Shinji Satomura, et al., 435/6, 7.1, 7.9, 7.93, 803, 971; 436/501, 507, 536, 538, 541, 812, 824 [IMAGE AVAILABLE]
116. 5,541,310, Jul. 30, 1996, Herbicide resistant plants; Eric R. Ward, et al., 536/23.6; 435/252.3, 320.1, 348, 418 [IMAGE AVAILABLE]
117. 5,538,882, Jul. 23, 1996, Variant-type carbohydrate hydrolase,

variant gene of the enzyme and method for producing oligosaccharide using the enzyme; Ikuo Matsui, et al., 435/193, 202, 203, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]

118. 5,525,501, Jun. 11, 1996, DNA Fragment encoding acylamino acid racemase; Masaharu Tokuyama, et al., 435/233, 69.1, 252.3, 320.1, 826; 536/23.2, 23.7 [IMAGE AVAILABLE]

119. 5,516,896, May 14, 1996, Biologically active B-chain homodimers; Mark J. Murray, et al., 530/399; 435/69.4, 252.3, 320.1; 530/324, 380 [IMAGE AVAILABLE]

120. 5,512,478, Apr. 30, 1996, Genes and enzymes involved in the microbial degradation of pentachlorophenol; Cindy S. Orser, et al., 435/252.33, 184, 320.1; 536/23.2 [IMAGE AVAILABLE]

121. 5,512,460, Apr. 30, 1996, Glia activating factor and its production; Ken-ichi Nauro, et al., 435/69.1, 71.1, 252.3, 254.11, 360, 365.1; 536/23.1, 23.5 [IMAGE AVAILABLE]

122. RE 35,171, Mar. 5, 1996, Compositions for detecting ras gene proteins and cancer therapeutics; Francis P. McCormick, et al., 530/350, 395, 413, 416, 828 [IMAGE AVAILABLE]

123. 5,470,463, Nov. 28, 1995, Passivated porous supports and methods for the preparation and use of same; Pierre Girot, et al., 210/198.2, 502.1, 635, 656; 502/402 [IMAGE AVAILABLE]

124. 5,466,598, Nov. 14, 1995, Deacetylcephalosporin C acetyltransferase from Acremonium chrysogenum; Akio Matsuda, et al., 435/254.11, 49, 193, 256.4, 320.1; 536/23.2 [IMAGE AVAILABLE]

125. 5,466,593, Nov. 14, 1995, Hepatocyte growth factor activating protease and gene encoding the protease; Takeshi Shimomura, et al., 435/219, 69.1, 226, 252.3, 254.11, 320.1; 536/23.2 [IMAGE AVAILABLE]

126. 5,455,330, Oct. 3, 1995, Interleukin-1 antagonist and uses thereof; John S. Haskill, et al., 530/350; 435/69.1, 69.5, 69.52; 530/351 [IMAGE AVAILABLE]

127. 5,451,659, Sep. 19, 1995, Polypeptide, DNA fragment encoding the same, drug composition containing the same and process for producing the same; Hideaki Morishita, et al., 530/324; 435/69.1, 69.2, 212, 213, 218, 252.3, 320.1; 530/300 [IMAGE AVAILABLE]

128. 5,446,127, Aug. 29, 1995, Antipathogenic peptides and compositions containing the same; Francisco Garcia-Olmedo, et al., 530/300, 324, 370 [IMAGE AVAILABLE]

129. 5,445,732, Aug. 29, 1995, Passivated porous polymer supports and methods for the preparation and use of same; Pierre Girot, et al., 210/198.2, 502.1, 635, 656; 502/402 [IMAGE AVAILABLE]

130. 5,434,247, Jul. 18, 1995, Peptides for inducing monocyte cytotoxicity in diagnostics; C. Michael Jones, 530/328; 424/85.1; 530/329, 330, 331 [IMAGE AVAILABLE]

131. 5,422,274, Jun. 6, 1995, Internal deletion mutants of soluble T4(CD4); Paul J. Maddon, et al., 435/320.1; 424/188.1, 208.1; 435/69.4, 69.6, 358; 530/388.35; 536/23.1 [IMAGE AVAILABLE]

132. 5,409,895, Apr. 25, 1995, Protease inhibitory polypeptides derived from urinary trypsin inhibitor and compositions thereof; Hideaki Morishita, et al., 514/12; 435/69.2; 530/324 [IMAGE AVAILABLE]

133. 5,403,725, Apr. 4, 1995, Method for production of lymphotoxin

(TNFB) in cell line A-C5-8; Toshiaki Osawa, et al., 435/69.5; 424/85.1; 435/91.51, 320.1; 530/351 [IMAGE AVAILABLE]

134. 5,401,650, Mar. 28, 1995, Cloning and expression of biologically active .alpha.-galactosidase A; Robert J. Desnick, et al., 435/208, 193; 536/23.2, 23.4 [IMAGE AVAILABLE]

135. 5,393,430, Feb. 28, 1995, Passivated and stabilized porous mineral oxide supports and methods for the preparation and use of same; Pierre Girot, et al., 210/635, 198.2, 502.1, 656 [IMAGE AVAILABLE]

136. 5,389,536, Feb. 14, 1995, Lipase from Pseudomonas mendocina having cutinase activity; Gregory L. Gray, et al., 435/198, 195; 930/240 [IMAGE AVAILABLE]

137. 5,376,545, Dec. 27, 1994, DNA coding for uricase and process for producing uricase; Makoto Yagasaki, et al., 435/191, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]

138. 5,364,787, Nov. 15, 1994, Genes and enzymes involved in the microbial degradation of pentachlorophenol; Cindy S. Orser, et al., 435/252.33, 183, 189, 320.1; 536/23.2 [IMAGE AVAILABLE]

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140. 5,346,814, Sep. 13, 1994, Method of detecting cell response to cell-damaging energy; George M. Hahn, et al., 435/35; 252/600; 435/968; 436/57, 58, 59, 63, 64 [IMAGE AVAILABLE]

141. 5,338,678, Aug. 16, 1994, Expression of DNA sequences encoding a thermally stable cytosine deaminase from saccharomyces; Peter D. Senter, et al., 435/227, 252.3, 320.1, 365; 536/23.2, 23.74 [IMAGE AVAILABLE]

142. 5,314,819, May 24, 1994, Protein having nitrile hydratase activity obtained from rhizobium, gene encoding the same, and a method for producing amides from nitriles via a transformant containing the gene; Kazunori Yamada, et al., 435/232, 69.1, 71.2, 129, 252.3, 252.33, 320.1; 536/23.2 [IMAGE AVAILABLE]

143. 5,312,910, May 17, 1994, Glyphosate-tolerant 5-enolpyruvyl-3-phosphoshikimate synthase; Ganesh M. Kishore, et al., 536/23.2; 47/58.1; 435/69.7, 69.8, 70.1; 504/206; 536/23.4, 23.6 [IMAGE AVAILABLE]

144. 5,310,667, May 10, 1994, Glyphosate-tolerant 5-enolpyruvyl-3-phosphoshikimate synthases; David A. Eichholtz, et al., 435/91.1, 69.1; 536/23.6, 23.7 [IMAGE AVAILABLE]

145. 5,304,310, Apr. 19, 1994, Method for concentrating and purifying hirudin from leeches; Kurt Lang, et al., 210/639; 424/550; 514/21; 530/344, 855 [IMAGE AVAILABLE]

146. 5,268,097, Dec. 7, 1993, Passivated and stabilized porous mineral oxide supports and method for the preparation and use of same; Pierre Girot, et al., 210/198.2, 502.1, 635, 656; 502/402 [IMAGE AVAILABLE]

147. 5,260,208, Nov. 9, 1993, Enantioselective amidases, DNA sequences encoding them, method of preparation and utilization; Dominique Petre, et al., 435/228, 69.1, 252.3, 252.32, 320.1; 536/23.2 [IMAGE AVAILABLE]

148. 5,258,292, Nov. 2, 1993, Enzymic process for the synthesis of ammonium adipate; Patrice Yeh, et al., 435/128, 135, 174, 228 [IMAGE AVAILABLE]

149. 5,254,339, Oct. 19, 1993, Process for preparing immune complexes;

Bror Morein, 424/191.1, 193.1, 195.11, 196.11, 197.11; 514/2, 8 [IMAGE AVAILABLE]

150. 5,245,024, Sep. 14, 1993, Cellulose chromatography support; Ioannis Scarpa, et al., 536/56; 436/530; 525/54.1, 54.21; 530/403, 404, 405, 814; 536/57, 84, 92, 98 [IMAGE AVAILABLE]

151. 5,240,845, Aug. 31, 1993, Mutated streptokinase proteins; Setsuro Fujii, deceased, et al., 435/216; 424/94.64 [IMAGE AVAILABLE]

152. 5,236,838, Aug. 17, 1993, Enzymatically active recombinant glucocerebrosidase; James Rasmussen, et al., 435/209, 69.1, 69.8, 70.1, 70.3, 320.1, 458, 461, 464, 466; 536/23.2 [IMAGE AVAILABLE]

153. 5,234,839, Aug. 10, 1993, Compositions for detecting ras gene proteins and cancer therapeutics; Frank P. McCormick, et al., 436/501; 435/7.1, 21; 436/813; 530/350, 395, 416, 828 [IMAGE AVAILABLE]

154. 5,227,302, Jul. 13, 1993, DNA encoding platelet derived endothelial cell growth factor (PD-ECGF); Carl-Henrik Heldin, et al., 435/357, 252.3, 252.33, 320.1; 530/350, 399; 536/23.5, 23.51 [IMAGE AVAILABLE]

155. 5,217,880, Jun. 8, 1993, L-fucose dehydrogenase gene, microorganism having said gene and production of L-fucose dehydrogenase by the use of said microorganism; Masanori Mitta, et al., 435/69.1, 190, 252.33; 536/23.2 [IMAGE AVAILABLE]

156. 5,145,783, Sep. 8, 1992, Glyphosate-tolerant 5-endolpyruvyl-3-phosphoshikimate synthase; Ganesh M. Kishore, et al., 800/300; 435/69.1, 70.1, 183, 320.1, 411, 413, 414, 415, 416, 418; 536/23.2, 23.6; 800/300.1 [IMAGE AVAILABLE]

157. 5,126,433, Jun. 30, 1992, Soluble forms of the T cell surface protein CD4; Paul J. Maddon, et al., 530/395, 350, 380, 387.2, 387.9, 389.1 [IMAGE AVAILABLE]

158. 5,120,715, Jun. 9, 1992, Method for purifying fibroblast growth factor protein; Koichi Kato, et al., 514/21, 2, 54, 57, 802; 530/350, 383, 399, 413 [IMAGE AVAILABLE]

159. 5,110,906, May 5, 1992, Derivatives of soluble T-4; Paul J. Maddon, et al., 530/350; 435/5, 974; 530/395, 821; 930/221 [IMAGE AVAILABLE]

160. 5,108,457, Apr. 28, 1992, Enzymatic peracid bleaching system with modified enzyme; Ayrookaram J. Poulouse, et al., 8/111; 435/132, 195, 198; 510/305, 374, 530 [IMAGE AVAILABLE]

161. 5,104,975, Apr. 14, 1992, Compositions for detecting ras gene proteins and cancer therapeutics; Francis P. McCormick, et al., 530/350, 395, 413, 416, 828 [IMAGE AVAILABLE]

162. 5,045,633, Sep. 3, 1991, Expression of biologically active PDGF analogs in eucaryotic cells; Mark J. Murray, et al., 530/399; 435/69.4 [IMAGE AVAILABLE]

163. 5,030,240, Jul. 9, 1991, Enzymatic peracid bleaching system; Richard J. Wiersema, et al., 8/111; 435/132, 195, 198; 510/374 [IMAGE AVAILABLE]

164. 5,028,534, Jul. 2, 1991, DNA clones of human placental plasminogen activator inhibitor; J. Evan Sadler, et al., 435/69.2, 69.1, 252.3, 320.1, 354; 536/23.2, 24.1 [IMAGE AVAILABLE]

165. 4,971,908, Nov. 20, 1990, Glyphosate-tolerant 5-enolpyruvyl-3-phosphoshikimate synthase; Ganesh M. Kishore, et al., 536/23.2; 435/91.5, 91.52, 193; 536/23.6 [IMAGE AVAILABLE]

166. 4,882,226, Nov. 21, 1989, Carrier material for use in chromatography or carrying out enzymatic reactions; Jan A. J. Schutyser, et al., 428/407; 210/198.2, 656; 428/402, 403; 435/180; 436/531; 521/142; 530/810, 815 [IMAGE AVAILABLE]

167. 4,845,075, Jul. 4, 1989, Biologically active B-chain homodimers; Mark J. Murray, et al., 514/12; 530/324, 350; 930/10, 120, 221 [IMAGE AVAILABLE]

168. 4,801,542, Jan. 31, 1989, Expression of biologically active PDGF analogs in eucaryotic cells; Mark J. Murray, et al., 435/69.4, 69.1, 254.2, 320.1; 536/23.2, 23.51, 24.1; 930/120, 221 [IMAGE AVAILABLE]

169. 4,769,328, Sep. 6, 1988, Expression of biologically active PDGF analogs in yeast; Mark J. Murray, et al., 435/69.1, 69.4, 254.2, 320.1, 483; 930/120 [IMAGE AVAILABLE]

170. 4,415,631, Nov. 15, 1983, Porous inorganic support material coated with an organic stationary phase, for use in chromatography, and process for its preparation; Jan A. J. Schutijser, 428/405; 210/198.2, 656; 427/219; 428/404, 447; 502/150 [IMAGE AVAILABLE]

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